

Responses to Referee Anonymous (Short Comment)

We greatly appreciated R. Anonymous for providing comments and suggestions to this manuscript. Below, we have addressed your concerns and provided our point-by-point responses in blue.

It has been stated clearly in “Aims and scope” of this journal that “The journal scope is focused on studies with general implications for atmospheric science rather than investigations that are primarily of local or technical interest.” Apparently, this manuscript is a local interest in a single site of China.

We seriously considered your view of “Apparently, this manuscript is a local interest in a single site of China”, which is the reason you state “This manuscript does not meet the scope of ACP”.

We carefully read the “Aims and scope” of ACP and make sure that our manuscript conforms fine to the scope of the journal. This manuscript is a research article subjected to field measurements of aerosols and clouds. We focused on the regional atmospheric pollution and the impact of the widespread cloud on aerosols in the acid rain area in southern China, rather than a local interest. The reasons we selected Mt. Lushan as the observation site is as follows:

1. Mt. Lushan, far from heavy industrial regions, is a representative regional atmosphere background station in southern China; the results would be helpful to evaluate the regional air quality.
2. The location and high altitude (1165 m a.s.l., near planetary boundary layer) of the observation site make it a favorable platform to study regional and long-range transport of atmospheric pollutants from Eastern and Southern coastal China such as Yangtze River delta (YRD) and Pearl River delta (PRD).
3. As cloud process makes significant contributions to the aerosol evolution/modification, the frequent cloud events at Mt. Lushan are in favor of investigating the impact of actual cloud processing on aerosols.

Finally, our results demonstrated the transport of regional air pollution and the important effect of cloud processing on aerosol properties, implying significant contributions of regional human activities, long-range transport and substantial cloud processing to air pollution and aerosol solubility in southern China or even in East Asia.

Overall, we consider that this manuscript accords well with the scope of ACP.